TRACKING FORM

I. KEY FEATURES OF PERMITTEE'S AMENDMENT APPLICATION

Permittee	Mine Name	Amendment #	Date Received / By
PacifiCorp	Cottonwood	ACT/015/019-95G	~~8/28/95~~ ~~10-25-96~~ US Mail

Proposal: MSHA Ponds As-builts drawings

Description: A recent survey of the ponds revealed minor differences in as-builts conditions. Both ponds are slightly larger than previously identified.

II. AMENDMENT CLASSIFICATION

☐ Major Amendment	Public Notice Required	☐ Yes	☑ No
☒ Minor Amendment	Outside of Permit Area	☐ Yes	☑ No
	Outside of Disturbed Area	☐ Yes	☑ No

III. SUMMARY OF DOGM PROCESSING DATES

		FOLLOWUP REQUIREMENTS		
Reviews Completed	9/4/95			
Approved Effective	9/5/95	MRP "After Const" Documents	☑ Yes	☐ No
Disapproved		TA	☑ Yes	☐ No
Mailed	9/5/95	CHIA	☐ Yes	☑ No
Filed MRP - SLO		Responds Within 15 days of Receipt? ☐ Yes ☑ No If no, explain below. MSHA/Other Agency Coordination		

IV. COORDINATED REVIEWS

EXTERNAL AGENCIES (Mine Specific) (Adverse Comments, If Any, Include in Item V)	COPY SENT	CONTACTED	DOGM REVIEWS/DISCIPLINES		
OSM	☑ Y ☐ N	☐ C ☑ N/A	Generalists WSM	☑ Yes	☐ N/A
BLM	☑ Y ☐ N	☑ C ☐ N/A	____ INTERDISCIPLINARY APPROACH		
US Forest Service	☑ Y ☐ N	☑ C ☐ N/A	- Administrative ____	☐ Yes	☐ N/A
US Fish & Wildlife	☐ Y ☐ N	☑ C ☐ N/A	- Biology ____	☐ Yes	☐ N/A
US National Parks	☐ Y ☐ N	☐ C ☑ N/A	- Engineering ____	☐ Yes	☐ N/A
UT Environmental Quality	☐ Y ☐ N	☑ C ☐ N/A	- Geology ____	☐ Yes	☐ N/A
UT Wildlife Resources	☐ Y ☐ N	☑ C ☐ N/A	- Hydrology ____	☐ Yes	☐ N/A
UT State History	☐ Y ☐ N	☐ C ☑ N/A	- Soils ____	☐ Yes	☐ N/A
UT Water Rights	☐ Y ☐ N	☑ C ☐ N/A	- Permitting ____	☐ Yes	☐ N/A
UT SITLA	☐ Y ☐ N	☐ C ☑ N/A	- Other ____	☐ Yes	☐ N/A
Other MSHA	☐ Y ☐ N	☐ C ☐ N/A			

V. FOOTNOTES/ADDITIONAL EXPLANATION AS NECESSARY

After a two year period the N&S Cottonwood Mine ponds have been modified as directed by MSHA and covered in an amendment submitted to DOGM approved 9/5/95 and "as built's" received 11/9/96 and also approved.

DAMS, EMBANKMENTS AND OTHER IMPOUNDMENTS

Sediment Ponds - Two sediment ponds protect the twenty acre disturbance associated with Cottonwood/Wilberg Portal. Two small sediment ponds are used for sediment and water quality at Cottonwood Fan Portal. All ponds have UPDES permits (see Existing Structures).

The original Cottonwood/Wilberg/Des Bee Dove Waste Rock Disposal Site (Cells 1 through 7) requires no separate sedimentation pond as it is an earthen containment structure itself. An approved sedimentation pond was constructed at the current Waste Rock Disposal Site (operation startup 1990). The pond is covered under UPDES Permit No. UT0022896.

All structures are inspected quarterly by a qualified person and at least yearly by a registered professional engineer. A certified engineering report will be submitted to the regulatory authority annually. See Appendix XI for sediment pond safety factor calculations.

Construction of the ponds and waste rock site is according to the design discussed in Existing Structures. These designs were prepared under the direction of registered professional engineers. Basic construction of the mine site ponds includes: (1) excavation of pond area concurrently with dam construction, (2) emplacement of large boulders in dam for riprap, (3) installation of outlet works, (4) installation of 3 foot thick clay seal in each pond, and (5) establishment of vegetation to control embankment erosion. Specifics of Subchapter K compliance criteria are presented in Existing Structures.

SUPERSEDED
EFFECTIVE:
JUL 17 1996
UTAH DIVISION OIL, GAS AND MINING

The mine site ponds are connected in series such that the overflow from the first pond enters the second pond. Overflow from the second pond is discharged into a 90-inch bypass culvert. The outlet works of each pond consist of an overflow riser and outlet orifice. The orifice functions to slowly drain the sedimentation ponds while the sediment is being settled out. Each pond also is equipped with a staff gauge to indicate water surface depth.

Maintenance of the ponds includes quarterly inspections by a qualified person and an annual inspection and certified report by a registered professional engineer. The level of accumulated sediment is also checked quarterly. When accumulated sediment reaches 60% of the one-year volume for sediment, the ponds will be cleaned.

To help reduce the frequency of mine site pond cleaning, two sediment traps are located in the tipple area (see Facilities Map WS449E, Packet 3-16). Flow into the sediment traps is via surface ditches. Discharge from the traps enters the existing disturbed drainage culvert system and ultimately reports to the sediment pond. The traps are designed to facilitate easy cleaning on a periodic basis. These sediment traps are identical to those installed at the Deer Creek Mine (see Drawing DS1159C, Deer Creek PAP).

Embankments - Three embankment fill structures have been constructed at Cottonwood/Wilberg Portal. These fills support the service road, upper parking lot, and upper storage area. Design and construction of the fills was performed and certified by Roberts & Schaefer Company engineers.

SUPERSEDED
EFFECTIVE
JUL 17 199
UTAH DIVISION OIL, GAS AND MINING

VOLUME 6 (Cont.)

3-29	Sedimentation Ponds (R&S)	7704-C121
	Sedimentation Ponds (R&S)	7704-C122
	Sedimentation Ponds Cross-Sections	CM-10552-WB
3-30	Sedimentation Ponds (R&S)	7704-C123
3-31	Sedimentation Ponds (R&S)	7704-C124
3-32	Ponds - Outlet Structure (R&S)	7704-C125
3-33	Ponds - Outlet Structure (R&S)	7704-C126
3-34	Details - Outlet Structure (R&S)	7704-C127
3-35	Sedimentation Ponds - Specifications (R&S)	7704-C128
3-36	Pond #2 - 10 Year Storm (R&S)	7704-C117
3-37	Pond #1 - 10 Year Storm (R&S)	7704-C118
3-38	Pond #2 - 50 Year Storm (R&S)	7704-C119

Reclamation

4-1	Final Reclamation Map - Stage I	CM-10500-WB
4-2	Final Reclamation Map - Stage II (2 Sheets)	CM-10378-WB
	Final Reclamation - 90" Culvert Plan (R&S)	7704-C45
4-3	Disturbed Mine Plan Area Cross Sections	CM-10484-WB
4-4	Subsidence Monitoring Overlay (3 Sheets)	CM-10581-WB
	1980 Primary Control Diagram	CM-10582-WB
4-5	East Mountain Spring & Subsidence Location Map	CM-10742-WB
4-6	Cottonwood Fan Portal Topography Cross-Section	CM-10406-CP
4-7	Cottonwood Fan Portal Reclamation Cross-Section (8 sheets)	CM-10813-CP
4-8	Cottonwood Fan Portal Diversion Ditch - Plan and Profile	CM-10828-CP
4-9	Cottonwood Fan Portal Diversion Ditch - Cross-Sections	CM-10827-CP

SUPERSEDED
EFFECTIVE:
JUL 17 199[illegible]
UTAH DIVISION OIL, GAS AND MINING

Application for Permit Change
Detailed Schedule of Changes to the Permit

Title of Change: MSHA PONDS, AS BUILT DRAWINGS	Permit Number: ACT/015/019
	Mine: COTTONWOOD
	Permittee: PACIFICORP

Provide a detailed listing of all changes to the mining and reclamation plan which will be required as a result of this proposed permit change. Individually list all maps and drawings which are to be added, replaced, or removed from the plan. Include changes of the table of contents, section of the plan, pages, or other information as needed to specifically locate, identify and revise the exiting mining and reclamation plan. **Include page, section and drawing numbers as part of the description.**

			DESCRIPTION OF MAP, TEXT, OR MATERIALS TO BE CHANGED
☐ ADD	☒ REPLACE	☐ REMOVE	Text Pages 3-32, 3-33 Vol. II
☐ ADD	☒ REPLACE	☐ REMOVE	Table of Contents Pg. 15 Vol I
☐ ADD	☒ REPLACE	☐ REMOVE	Drawings 7704-C121, 7704-C122, Revised KS1496D + Replace with
☐ ADD	☐ REPLACE	☐ REMOVE	Certified (2/28/96) Dwg. KS1496D Plate 3-29 Vol. 6
☐ ADD	☒ REPLACE	☐ REMOVE	CM-10552-WD AND Replace with KS1578D & KS1579D in Plate 3-30 Vol. 6
☐ ADD	☒ REPLACE	☐ REMOVE	7704-C123, 7704-C124, 7704-C125 AND Replace with KS1577D Plate 3-31
☐ ADD	☒ REPLACE	☐ REMOVE	7704-C125, 7704-C126, 7704-C127 AND Replace with KS1576D Plate 3-32
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	

Any other specific or special instructions required for insertion of this proposal into the Mining and Reclamation Plan?

INCORPORATED
EFFECTIVE:
JUL 9 1996 956
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

SUPERSEDED
EFFECTIVE:
JUL 17 1996
UTAH DIVISION OIL, GAS AND MINING

Form DOGM - C1 (Last Revised 6/93)

File Folder # 3

APPLICATION FOR PERMIT CHANGE

Title of Change: MSHA PONDS, AS BUILT DRAWINGS	Permit Number: ACT 1015 1019
	Mine: COTTONWOOD
	Permittee: PACIFICORP

Description, include reason for change and timing required to implement:
UPDATED DRAWINGS OF THE COTTONWOOD MINE SEDIMENT PONDS (MSHA)

☐ Yes	☒ No	1. Change in the size of the Permit Area? _____ acres ☐ increase ☐ decrease.
☐ Yes	☒ No	2. Change in the size of the Disturbed Area? _____ acres ☐ increase ☐ decrease.
☐ Yes	☒ No	3. Will permit change include operations outside the Cumulative Hydrologic Impact Area?
☐ Yes	☒ No	4. Will permit change include operations in hydrologic basins other than currently approved?
☐ Yes	☒ No	5. Does permit change result from cancellation, reduction or increase of insurance or reclamation bond?
☐ Yes	☒ No	6. Does permit change require or include public notice publication?
☐ Yes	☒ No	7. Permit change as a result of a Violation? Violation #
☐ Yes	☒ No	8. Permit change as a result of a Division Order? D.O.#
☐ Yes	☒ No	9. Permit change as a result of other laws or regulations? Explain:
☐ Yes	☒ No	10. Does permit change require or include ownership, control, right-of-entry, or compliance information?
☐ Yes	☒ No	11. Does the permit change affect the surface landowner or change the post mining land use?
☐ Yes	☒ No	12. Does permit change require or include collection and reporting of any baseline information?
☐ Yes	☒ No	13. Could the permit change have any effect on wildlife or vegetation outside the current disturbed area?
☐ Yes	☒ No	14. Does permit change require or include soil removal, storage or placement?
☐ Yes	☒ No	15. Does permit change require or include vegetation monitoring, removal or revegetation activities?
☐ Yes	☒ No	16. Does permit change require or include construction, modification, or removal of surface facilities?
☒ Yes	☐ No	17. Does permit change require or include water monitoring, sediment or drainage control measures?
☒ Yes	☐ No	18. Does permit change require or include certified designs, maps, or calculations?
☐ Yes	☒ No	19. Does permit change require or include underground design or mine sequence and timing?
☐ Yes	☒ No	20. Does permit change require or include subsidence control or monitoring?
☐ Yes	☒ No	21. Have reclamation costs for bonding been provided or revised for any change in the reclamation plan?
☐ Yes	☒ No	22. Is permit change within 100 feet of a public road or perennial stream or 500 feet of an occupied dwelling?
☐ Yes	☒ No	23. Is this permit change coal exploration activity ☐ inside ☐ outside of the permit area?

☒ Attach ~~3~~ (7) complete copies of proposed permit change as it would be incorporated into the Mining and Reclamation Plan.

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.

Val E Payne VAL E PAYNE SR. ENV. ENGINEER 6/21/96
Signed - Name - Position - Date

Subscribed and sworn to before me this 21 day of June, 1996
Barbara J Adams
Notary Public

My Commission Expires: 10-13, 1996
Attest: STATE OF Ut
COUNTY OF Emery

Notary Public
BARBARA J. ADAMS
15 North Main
Huntington, Utah 84523
My Commission Expires
October 13, 1996
State of Utah

SUPERSEDED
EFFECTIVE:
JUL 17 1996
JUN 25
DIVISION OF OIL, GAS & MINING PRICE UTAH

Received by Oil, Gas & Mining

OIL, GAS AND MINING

ASSIGNED PERMIT CHANGE NUMBER
959

INCORPORATED
EFFECTIVE
JUL - 9 1996
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

September 5, 1995

Val Payne
Sr Environmental Engineer
Energy West Mining
PacifiCorp Electric Operations
PO Box 310
Huntington, Utah 84528

RE: MSHA Ponds, Cottonwood Mine, PacifiCorp Electric Operations, ACT/015/019-95G, Folder #3, Emery County, Utah

Dear Mr. Payne:

The aforementioned amendment is approved effective September 5, 1995. The approval is based on the information you submitted together with the regulatory findings cited below.

Followup Action By Permittee

Within 30 days after this project is completed, please submit:

Thirteen copies of:

- Certified Map (R645-301-512 & R645-301-740).
- Certified "as constructed" pond details.
- Plates 3-29 through 3-38 as appropriate.

Project Description

In summary, the key features of this project are as follows:

MODIFICATION TO NORTH & SOUTH SEDIMENT PONDS. The north and south ponds at the Cottonwood Mine are proposed to be modified. The reason for the modification stems from a decision by MSHA on 1/13/95 that the ponds are classified as MSHA ponds (see attachment #1). On 6/9/95, MSHA approved the designs (see attachment #2).

MODIFICATION TO NORTH & SOUTH SEDIMENT PONDS (-continued-). The modification requested by MSHA subsequently designed by the permittee and approved by MSHA involved these components:

- ponds were assigned a low hazard rating.
- existing spillways are adequate.
- redesigning the trash racks and installing anti-vortex plates.
- increasing the embankment height to provide 3' of freeboard.
- scarifying existing embankment before placing and compacting new embankment material.
- inspection frequency changed from quarterly to monthly.
- new MSHA identification pond signs.

Findings

(1) AMENDMENT APPLICATION. The applicant submitted a complete and accurate amendment application.

(2) DOGM PERMIT STATUS. The addition lies within the current permit.

(3) ACTIVE MINE. The area is included in an active approved coal mining and reclamation operation and is within the existing disturbed area.

(4) LAND STATUS. The surface estate is owned by the U.S. Government under the administration of the U.S. Forest Service.

(5) OTHER APPROVAL/COORDINATION.

- On 8/30/95, the modification of the ponds was discussed with USFS and concurred with the modification of the ponds.

- On 8/31/95, the State Engineer at Price by phone call, concurred with the modification of the ponds.

- On 8/31/95, the Department of Health at Price by phone call concurred with the modification of the ponds.

- On 8/31/95, BLM at Price by phone call, concurred with the modification of the ponds.

(5) OTHER APPROVAL/COORDINATION -continued-.

●On 9/1/95, DWR at Price by phone call, concurred with the modification of the ponds.

●The material to increase the height of the embankment will come from UDOT pit, which has been tested and subsequently approved by the Division.

(6) IMPACTS. The project does not have any material adverse impacts to hydrologic balance or any existing critical habitat.

(7) RECLAMATION AND BONDING. The approved reclamation plan associated with the removal of the ponds is adequate. Scope of reclamation work has not increased; therefore, no increase in bonding is required. Current surety bond is adequate.

(8) RECORD UPDATE. The DOGM Technical Analysis has been updated to reflect information pertinent to this amendment.

MRP updated pages 3-32 and 3-33 as submitted are approved. These will be submitted to you and others as a complete package when construction has been completed. Other documents as cited in "Followup Action by Permittee", will also be submitted to you and others at the same time.

Sincerely,

Wm. J. Malencik
Reclamation Specialist

sd
Enclosure
cc: James Fulton, OSM, Denver
John Kuzar, MSHA, Denver
Mark Bailey, BLM, Price
Janette Kaiser, USFS, Manti-LaSal
Mark Page, DWR, Price
Dave Ariotti, DEQ, Price
Robert Valentine, DWR, SLC
Pam Grubaugh-Littig, DOGM, SLC
Joe Helfrich, DOGM, SLC
Karl Houskeeper, Pacificorp, Huntington

U. S. Department of Labor

Mine Safety and Health Administration
P.O. Box 25367
Denver, Colorado 80225-0367
Coal Mine Safety and Health
District 9

Attachment 2

Mine File

JUN - 9 1995

Randy Tatton
Manager Health, Safety and Training
Energy West Mining Company
P. O. Box 310
Huntington, UT 84528

RE: Cottonwood Mine
I.D. No. 42-01944
#1 Sediment Pond
ID No. 1211-UT-09-01944-01
#2 Sediment Pond
ID No. 1211-UT-09-01944-02
Construction Plan

Dear Mr. Tatton:

This is in response to Energy West Mining Company's letter dated April 14, 1995, concerning the modified construction plan for the referenced impounding structures of your surface facility. Your plan was reviewed by MSHA's technical support personnel and is approved in accordance with 30 CFR 77.216(a).

Sincerely,

John A. Kuzar
District Manager

APPROVED CMS & H JUN - 9 '95

Post-it™ brand fax transmittal memo 7671	# of pages ▸ 2
To BILL MALENCIK	From VAL PAYNE
Co. DOGM	Co.
Dept.	Phone # 687-4782
Fax # (801) 637-8603	Fax # 687-2695

JUN RECEIVED

U. S. Department of Labor

Mine Safety and Health Administration
P.O. Box 25367
Denver, Colorado 80225–0367
Coal Mine Safety and Health
District 9

Attachment 1

JAN 13 1995

Permit

[redacted]

Randy Tatton
Manager Health, Safety and Training
Energy West Mining Company
P. O. Box 310
Huntington, UT 84528

RE: Cottonwood Mine, ID No. 42-01944
#1 Sediment Pond (North)
ID No. 1211-UT-09-01944-01
~~#2 Sediment Pond (South)~~
ID No. 1211-UT-09-01944-02
MSHA Jurisdiction
As-Built Construction Plan

Dear Mr. Tatton:

This is in response to Energy West Mining Co.'s letters and plan submittal information dated January 28, 1993, and February 2, 1994, concerning MSHA's jurisdiction over the referenced impounding structures for the subject mine.

Personnel from the Mine Waste and Construction Division of the Denver Safety and Health Technology Center have reviewed the construction data and have concluded that the dams do fall under MSHA's regulation of 30 CFR 77.216(a). Impoundment review report No. D8169-W3654, concerning the design plan, is enclosed for your review. Your two as-built water impounding structures cannot be approved as built. Design modifications will be required before final approval of the structures can be granted. Minor changes in the design of the trash racks about the water inlet of the decant system and anti-water-vortex plates must be installed. A minimum freeboard of three (3) feet between the water and the lowest elevation point on the embankment crest is required. Please follow the recommendations of the enclosed report in submitting a revised plan to the District Manager for his review.

A written response addressing the deficiencies stated above is requested to be submitted to this office by February 20, 1995. If you have any questions, or wish to have a meeting to discuss this matter, please contact this office at (303) 231-5462.

Sincerely,

John A. Kuzar
District Manager

Enclosure

U. S. Department of Labor

Mine Safety and Health Administration
P.O. Box 25367
Denver, Colorado 80225-0367

JAN 1995
RECEIVED
D9 COAL
Denver, CO
RC 70-04

DENVER SAFETY AND HEALTH TECHNOLOGY CENTER
Mine Waste and Construction Division

January 5, 1995

Report No. D8169-W3654

MEMORANDUM FOR JOHN A. KUZAR
District Manager, District 9
Coal Mine Safety and Health
Denver, Colorado

THROUGH: BILLY D. OWENS
Chief, Denver Safety and Health
Technology Center

FROM: STANLEY J. MICHALEK, P.E.
Civil Engineer, Mine Waste and
Construction Division

MICHAEL P. SHERIDAN, P.E.
Mining Engineer, Industrial and Electrical
Safety Division

SUBJECT: Review of Design Plans for No. 1 Sediment Pond (North), ID No. 1211-UT09-01944-01, and No. 2 Sediment Pond (South), ID No. 1211-UT09-01944-02, PacifiCorp, Energy West Mining Company, Emery County, Utah, Mine ID No. 42-01944

At the request of your office, the subject plans were reviewed to determine whether compliance with 30 CFR §77.216 has been achieved. Information reviewed consisted of a design package with drawings prepared by the Company's consultant, Hansen, Allen and Luce, Inc. The submittal was dated September 1991, Revised May 1992. These dams were constructed in 1978 and 1979, and are used for control of sediment downstream of the Cottonwood Mine surface facilities.

Sediment Pond Nos. 1 and 2 are in series and have a combined storage capacity of approximately 4.8 acre-feet. The height is typically determined from the elevation of the upstream toe of the dam to the invert elevation of a properly designed open-channel spillway. If no open-channel spillway is present, as is the case for these structures, the crest elevation is used. The height of Sediment Pond Nos. 1 and 2 are approximately 24 feet and 20 feet, respectively. These dams exceed the conditions listed in 30 CFR §77.216(a), and therefore should fall under MSHA regulation. Based on review of the data and discussions with MSHA, Company, and State of Utah personnel, it appears these dams should be assigned a low hazard rating.

In their submittal, the Company has asked whether the proposed emergency spillways will be necessary. Based on the submitted information, it appears the proposed emergency spillways are not necessary. The existing spillways will adequately pass the storm runoff. For future reference, however, the Company and consultant should be aware that when drawdown systems are the primary method for handling the design storm, storm duration up to 72 hours should be evaluated. Making this change for this specific site will not significantly change the maximum pool elevations.

It is recommended several minor modifications be made to the present decant inlets. These modifications should also be made to the proposed additional spillways if the Company decides to install them. Decant inlets should have a properly designed trash rack. The present and proposed trash racks have openings which are too small and do not include anti-vortex plates. The trash rack should allow small debris to pass while retaining larger debris. The small debris could collect on the wire mesh and clog the inlets. The new trash rack should not change the inlet elevation of the decant.

MSHA design guidelines typically require a minimum freeboard of three feet. It is stated in the submittal that one foot would be added to the crest to provide two feet of freeboard. It is recommended that two feet be added to the crest. Alternatively, the Company may lower the normal pool elevation. Proper scarification of the existing crest should be performed prior to placement of the new material. All remaining portions of the plans appear satisfactory.

It is recommended the District Manager approve the plans provided the changes named in this report are accepted. In a letter to your office dated January 28, 1993, the Company requests that inspection of the dams be allowed to continue quarterly. As recommended in the past for similar small, low hazard facilities, we believe the inspection frequency should not be greater than monthly. Please contact this office if you have any questions regarding this review.

cc: K. Howard
A. Davis
M. Stanton

ENERGY WEST Mining Co.
PO Box 310
Huntington, Utah 84528

June 19, 1996

RECEIVED
JUN 25
DIV
GAS &

Division of Oil, Gas and Mining
451 East 400 North
Box 156
Price, Utah 84501

Attention: Mr. Bill Malencik #2

Re: MSHA PONDS, AS BUILT DRAWINGS, PACIFICORP, COTTONWOOD MINE, ACT/015/019, EMERY COUNTY, UTAH.

PacifiCorp, by and through its wholly-owned subsidiary, Energy West Mining Company ("Energy West") as mine operator, herewith submits seven (7) copies each of the As Built Drawings of the Cottonwood Mine North and South MSHA Ponds, text pages 3-32, 3-33 and Table of Contents, Volume 1, page 15 to address the above referenced matter.

Please refer to the letter dated August 17, 1995, Re: MSHA PONDS AMENDMENT. (Copy attached). Please find in paragraph four, line three, where it states that revisions to the Plate Drawings 3-29 thru 3-38 may be required. After reviewing these drawings it was determined that Plates 3-29 thru 3-35 would be revised to provide clarity and reflect the necessary changes required by MSHA. Text pages 3-32 and 3-33, revised August 17, 1995 are enclosed herewith. No additional changes have been made to these pages. The following Tables show the drawings and plate number changes.

Table A reflects the current drawings and plate numbers in the approved permit, Volume 6, Plates 3-29 thru 3-38.

EFFECTIVE
JUL - 9 1996
STATE DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

Huntington Office:
(801) 687-9821
Fax (801) 687-2695
Purchasing Fax (801) 687-9092

Deer Creek Mine:
(801) 381-2317
Fax (801) 381-2285

Cottonwood Mine:
(801) 748-2319
Fax (801) 748-2380

NOTE: Plates 3-33 thru 3-35, Volume 6, will be deleted. Plates 3-36 thru 3-38 remain unchanged. The Table of Contents (Page 15) is revised to reflect the changes discussed above.

A recent survey of the ponds revealed minor differences in as-built conditions. Both ponds are of slightly larger capacity than as previously identified. The correct as-built conditions are reflected on the enclosed drawings.

Thank you for your help and assistance in completing this amendment. If there are any questions or concerns, please call Richard Northrup at 687-4822 or myself at 687-4722.

Sincerely,

Val Payne

Val Payne
Sr. Environmental Engineer

INCORPORATED
EFFECTIVE
JUL - 9 1996
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

SLC

Val Payne
Sr. Environmental Engineer
PacifiCorp
P.O. Box 310
Huntington, Utah 84528

RE: MSHA Ponds, PacifiCorp, Cottonwood Mine, ACT/015/019-95G, Folder #3, Emery County, Utah

Dear Mr. Payne:

The follow-up documents on the aforecited amendment have been reviewed and are approved effective July 9, 1996.

As background, the following information may be helpful to cooperating agencies.

1) MSHA, after an extended period of time, made a decision that the north and south sediment ponds met the criteria of "MSHA" ponds. Therefore, certain changes were required.

2) The permittee, subsequently, submitted an amendment application, which was coordinated and approved by DOGM on September 5, 1995.

3) The approval required the submission of after construction documents as itemized in the decision of September 5, 1995.

A copy of the follow-up documents carrying the incorporated stamp is enclosed and is to be incorporated into your mine record system. We have closed our files on this amendment.

Sincerely,

Wm. J. Malencik
Reclamation Specialist

sd
enclosures
cc: Ranvir Singh, OSM, Denver
Mark Bailey, BLM, Price
Janette Kaiser, USFS, Price
Mark Page, State Eng, Price, w/o enc
Dave Ariotti, DEQ, Price, w/o enc
Bill Bates, DWR, Price, w/o enc
Joe Helfrich, DOGM, SLC
Pam Grubaugh-Littig, DOGM, SLC, w/o enc

INCORPORATED
EFFECTIVE:
JUL - 9 1996
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

One Utah Center
201 South Main, Suite 2100
Salt Lake City, Utah 84140-0021
(801) 220-2000

PACIFICORP
POWER SUPPLY

August 17, 1995

Utah Coal Regulatory Program
Division of Oil, Gas and Mining
451 East 400 North
Box 156
Price, Utah 84501

Attention: Bill Malencik

Re: MSHA PONDS AMENDMENT, PACIFICORP, COTTONWOOD MINE, ACT/015/019, EMERY COUNTY, UTAH.

PacifiCorp requests an amendment be granted to allow changes in the MRP, reflecting the approval of the North and South sediment ponds as MSHA ponds. The MSHA identification numbers for the North and South ponds are; ID No. 1211-UT-09-01944-01 and ID No. 1211-UT-09-01944-02, respectively.

MSHA has issued several variances in association with this approval. A second spillway will not be required. Monthly inspections of the North and South ponds will be conducted, instead of weekly inspections.

Modifications to the North and South ponds are required by MSHA. Required modifications consist of installing anti-water-vortex plates to the decants and a minimum of three (3) feet of freeboard between the water and the lowest elevation of the crest of the embankments. Modifications are scheduled to start on September 11, 1995.

Please find enclosed fourteen (14) copies of pages 3-32 and 3-33, which have been revised to reflect the approval of the North and South sediment ponds as MSHA ponds. The modifications may require revisions to existing Plates or the generation of new Plates. Plates 3-29 thru 3-38 are currently being reviewed to see how the modifications affect them. Upon completion of the modifications the appropriate Plates will be revised or new Plates will be generated and submitted to the Division, reflecting the as-built conditions of the North and South Ponds.

INCORPORATED
EFFECTIVE
JUL 0 1996
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

Your help is greatly appreciated. If you have any questions please feel free to contact Karl Houskeeper at 687-4825.

Sincerely,

Val Payne

Val Payne
Sr. Environmental Engineer

KRH/krh

cc: Morgan Moon
J. Blake Webster
File

INCORPORATED
EFFECTIVE:
JUL - 9 1996
UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

ENERGY WEST Mining Co.
A Subsidiary of PacifiCorp
PO Box 310
Huntington, Utah 84528

Karl R. Houskeeper
Environmental Engineer
Energy West Mining Company
P. O. Box 310
Huntington, UT 84528
(801) 687-4825
FAX (801) 687-2695

August 29, 1995

Division of Oil, Gas and Mining
451 East 400 North
Box 156
Price, Utah 84501

Attention: Bill Malencik

Re: MSHA PONDS AMENDMENT, PACIFICORP, COTTONWOOD MINE, ACT/015/019, EMERY COUNTY, UTAH.

In response to our phone conversations, additional information is being submitted to aid in the review and approval of the modifications to the north and south ponds at the Cottonwood Mine. These modifications are at the request of MSHA. MSHA has assumed jurisdiction over the ponds and already approved the modifications.

Enclosed are Drawing No's. KS1543-A, CM-10552-WB and KS1496D. Drawing No. KS1543-A shows the Anti Vortex Plate and associated Rack. Drawing No. KS1496D shows The existing plan view of the ponds. This drawing also shows the baseline where cross sections have been taken. Drawing No. CM-10552-WB shows the cross sections across both the north and south ponds. Please note that the areas on both ponds where the crest heights need to be increased to reach the 3' freeboard is minimal. These areas are located at the southern end of both ponds (see KS1496D cross sections).

The fill material used to elevate the dikes will come from the Berma Pit. This material has already been approved for use by the Division at Rilda Canyon. The material meets UDOT specifications to achieve the needed compaction. Please find enclosed sheets that show the specifications tested for UDOT requirements, and compaction test that were run on the material used at the Rilda Project. Similar compaction is expected on the pond dikes (93% - 96%) by raising the dike in 1' lifts. The lifts will be compacted by a roller. Any vegetation present on top of the dikes will be stripped prior to the material placement and compaction.

MSHA ID signs have been ordered and will be placed at the ponds in accordance with 30CFR 77.216-1.

This information is also being submitted to David Ariotti (Price Environmental Health) and Mark Page (Price State Engineers Office). Written or verbal approval from these agencies should be forthcoming.

Your help is greatly appreciated. If you have any questions please feel free to contact me at 687-4825.

Sincerely,

Karl R. Houskeeper

Karl R. Houskeeper
Environmental Engineer

KRH/krh

cc: David Ariotti
Mark Page
File

Form DOGM - C1 (Last Revised 6/93)

File Folder # 3

APPLICATION FOR PERMIT CHANGE

Title of Change: MSHA Ponds Amendment

Permit Number: ACT/015/019

Mine: Cottonwood

Permittee: PacifiCorp

Description, include reason for change and timing required to implement:
North & South South sediment ponds are now approved as MSHA Ponds.

☐ Yes	☑ No	1. Change in the size of the Permit Area? _____ acres ☐ increase ☐ decrease.
☐ Yes	☑ No	2. Change in the size of the Disturbed Area? _____ acres ☐ increase ☐ decrease.
☐ Yes	☑ No	3. Will permit change include operations outside the Cumulative Hydrologic Impact Area?
☐ Yes	☑ No	4. Will permit change include operations in hydrologic basins other than currently approved?
☐ Yes	☑ No	5. Does permit change result from cancellation, reduction or increase of insurance or reclamation bond?
☐ Yes	☑ No	6. Does permit change require or include public notice publication?
☐ Yes	☑ No	7. Permit change as a result of a Violation? Violation #
☐ Yes	☑ No	8. Permit change as a result of a Division Order? D.O.#
☑ Yes	☐ No	9. Permit change as a result of other laws or regulations? Explain: Ponds meet criteria of MSHA definition.
☐ Yes	☑ No	10. Does permit change require or include ownership, control, right-of-entry, or compliance information?
☐ Yes	☑ No	11. Does the permit change affect the surface landowner or change the post mining land use?
☐ Yes	☑ No	12. Does permit change require or include collection and reporting of any baseline information?
☐ Yes	☑ No	13. Could the permit change have any effect on wildlife or vegetation outside the current disturbed area?
☑ Yes	☐ No	14. Does permit change require or include soil removal, storage or placement? Embankments will be raised.
☐ Yes	☑ No	15. Does permit change require or include vegetation monitoring, removal or revegetation activities?
☑ Yes	☐ No	16. Does permit change require or include construction, modification, or removal of surface facilities?
☐ Yes	☑ No	17. Does permit change require or include water monitoring, sediment or drainage control measures?
☑ Yes	☐ No	18. Does permit change require or include certified designs, maps, or calculations?
☐ Yes	☑ No	19. Does permit change require or include underground design or mine sequence and timing?
☐ Yes	☑ No	20. Does permit change require or include subsidence control or monitoring?
☐ Yes	☑ No	21. Have reclamation costs for bonding been provided or revised for any change in the reclamation plan?
☐ Yes	☑ No	22. Is permit change within 100 feet of a public road or perennial stream or 500 feet of an occupied dwelling?
☐ Yes	☑ No	23. Is this permit change coal exploration activity ☐ inside ☐ outside of the permit area?

☑ **Attach 14 complete copies of proposed permit change as it would be incorporated into the Mining and Reclamation Plan.**

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.

Val Payne VALE PAYNE SR. ENV. ENGINEER 8/22/95
Signed - Name - Position - Date

Subscribed and sworn to before me this 22 day of August, 1995

Lori Ann Anderson
Notary Public

My Commission Expires: Dec. 22, 1997
Attest: STATE OF Utah
COUNTY OF Emery

NOTARY PUBLIC
Leri Ann Anderson
15 North Main St.
Huntington, Utah 84528
My Commission Expires
December 22, 1997
STATE OF UTAH

Received by Oil, Gas & Mining

ASSIGNED PERMIT CHANGE NUMBER

Application for Permit Change
Detailed Schedule of Changes to the Permit

Title of Change:	Permit Number: ACT/015/019
MSHA Ponds Amendment	Mine: Cottonwood
	Permittee: PacifiCorp

Provide a detailed listing of all changes to the mining and reclamation plan which will be required as a result of this proposed permit change. Individually list all maps and drawings which are to be added, replaced, or removed from the plan. Include changes of the table of contents, section of the plan, pages, or other information as needed to specifically locate, identify and revise the exiting mining and reclamation plan. **Include page, section and drawing numbers as part of the description.**

			DESCRIPTION OF MAP, TEXT, OR MATERIALS TO BE CHANGED
☐ ADD	☑ REPLACE	☐ REMOVE	Page 3-32
☐ ADD	☑ REPLACE	☐ REMOVE	Page 3-33
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	

Any other specific or special instructions required for insertion of this proposal into the Mining and Reclamation Plan?

Plates 3-29 thru 3-38 are being reviewed.
After modifications are done to ponds the appropriate plates will be revised or new plates will be generated. This information will be submitted to the Division.

ENERGY WEST Mining Co.
PO Box 310
Huntington, Utah 84528

June 26, 1996

RECEIVED
JUN 28 1996
DIVISION OF OIL
GAS & MINING PRICE UTAH

Division of Oil, Gas and Mining
451 East 400 North
P. O. Box 156
Price, Ut. 84501

OSG

#2

Attn. Mr. Bill Malencik

Re: COTTONWOOD MINE,MSHA PONDS, REVISED PAGES FOR PERMIT.

Please find the permit pages as requested, the table of contents sheet 15, of volume 1, sheets 3-32 and 3-33 of volume 2.

Thank you for your help and assistance in completing this Amendment. Please feel free to call at 687-4822 if there are any further questions or concerns.

Sincerely,

Richard Northrup
Environmental Engineer Dept.

Huntington Office:
(801) 687-9821
Fax (801) 687-2695
Purchasing Fax (801) 687-9092

Deer Creek Mine:
(801) 381-2317
Fax (801) 381-2285

Cottonwood Mine:
(801) 748-2319
Fax (801) 748-2380

DAMS, EMBANKMENTS AND OTHER IMPOUNDMENTS

Sediment Ponds - Two MSHA ponds provide sediment control for the twenty acre disturbance associated with Cottonwood/Wilberg Mine. Two small sediment basins are used for sediment and water quality at Cottonwood Fan Portal. All structures have UPDES permits (see Existing Structures).

The original Cottonwood/Wilberg/Des Bee Dove Waste Rock Disposal Site (Cells 1 through 7) requires no separate sedimentation pond as it is an earthen containment structure itself. An approved sedimentation pond was constructed at the current Waste Rock Disposal Site (operation startup 1990). The pond is covered under UPDES Permit No. UT0022896.

MSHA ponds are inspected monthly. All other structures are inspected quarterly by a qualified person and at least yearly by a registered professional engineer. A certified engineering report will be submitted to the regulatory authority annually. See Appendix XI for sediment pond safety factor calculations.

Construction of the ponds and waste rock site is according to the design discussed in Existing Structures. These designs were prepared under the direction of registered professional engineers. Basic construction of the mine site ponds includes: (1) excavation of pond area concurrently with dam construction, (2) emplacement of large boulders in dam for riprap, (3) installation of outlet works, (4) installation of 3 foot thick clay seal in each pond, and (5) establishment of vegetation to control embankment erosion. Specifics of Subchapter K compliance criteria are presented in Existing Structures.

The MSHA ponds are connected in series such that the overflow from the first pond enters the second pond. Overflow from the second pond is discharged into a 90-inch bypass culvert. The outlet works of each pond consist of an overflow riser and outlet orifice. The orifice functions to slowly drain the sedimentation ponds while the sediment is being settled out. Each pond also is equipped with a staff gauge to indicate water surface depth.

Maintenance of the ponds includes quarterly inspections (monthly for MSHA ponds) by a qualified person and an annual inspection and certified report by a registered professional engineer. The level of accumulated sediment is checked quarterly. When accumulated sediment reaches 60% of the maximum volume for sediment, the ponds will be cleaned.

To help reduce the cleaning frequency of the MSHA ponds, two sediment traps are located in the tipple area (see Facilities Map WS449E, Packet 3-16). Flow into the sediment traps is via surface ditches. Discharge from the traps enters the existing disturbed drainage culvert system and ultimately reports to the sediment pond. The traps are designed to facilitate easy cleaning on a periodic basis. These sediment traps are identical to those installed at the Deer Creek Mine (see Drawing DS1159C, Deer Creek PAP).

Embankments - Three embankment fill structures have been constructed at Cottonwood/Wilberg Portal. These fills support the service road, upper parking lot, and upper storage area. Design and construction of the fills was performed and certified by Roberts & Schaefer Company engineers.